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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,168	03/24/2005	Sylvie Fradette	531-017.008	2580
WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP BRADFORD GREEN, BUILDING 5			EXAMINER	
			FIORITO, JAMES	
755 MAIN STREET, P O BOX 224 MONROE, CT 06468			ART UNIT	PAPER NUMBER
			1793	
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			03/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If INO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). - This action is FINAL. - See 37 CFR 1.704(b). - This action is FINAL. - Ship This action is non-final. - Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. - Sisposition of Claims - Claim(s) 1-22 is/are pending in the application. - 4a) Of the above claim(s) is/are withdrawn from consideration. - 5) Claim(s) 1-22 is/are rejected. - 7) Claim(s) is/are allowed. - 6) Claim(s) is/are objected to. - 8) Claim(s) is/are objected to.		Application No.	Applicant(s)				
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application from the International Bureau (PCT Rule 17.2(a)).	3. Copies of the certified copies of the priority documents have been received in this National Stage						
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* See the attached detailed Office action for a list of the certified copies not received.							
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Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) A) Interview Summary (PTO-413) Paper No(s)/Mail Date							
Paper No(s)/Mail Date <u>3/05</u> . 6) Other:							

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 15 recite that the carbon dioxide is "recycled", it is unclear how the carbon dioxide is recycled, since it is converted into a metal carbonate.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Viteri US 6170264 in view of Lalande US 2004/0129181.

Viteri teaches a low to no pollution generating hydrocarbon combustion based power generation systems, including fossil fuel burning power plants that utilize gas and/or steam turbines (Column 1). Viteri uses terrestrial formations such as underground geological formations and oceans to sequester carbon dioxide (Column 1).

Viteri does not expressly state the steps of biologically transforming the carbon dioxide into carbonated species.

Lalande teaches a process of reducing the accumulation of greenhouse gases (Paragraph 3) using carbonic anhydrase to convert carbon dioxide produced by the burning of fossil fuels into hydrogen and bicarbonate ions (Paragraph 40). The ions are mixed with calcium chloride or sea salts and the pH is adjusted to cause carbonates to precipitate (Paragraph 41). The precipitate is used as clinker in a cement making process (Abstract).

At the time of invention it would have been obvious to perform the process of Viteri to include the steps of biologically transforming carbon dioxide into carbonated species in view of the teaching of Lalande. The suggestion or motivation would have been to transform harmful greenhouse gas into a carbonated metal harmless to the environment and useful in cement making processes (Paragraphs 3 and 39).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES A. FIORITO whose telephone number is (571)272-7426. The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/James A Fiorito/ Examiner, Art Unit 1793 /Wayne Langel/ Primary Examiner, Art Unit 1793